

Application No. 10/634,385
Response to Office Action

Customer No. 01933

Listing of Claims:

Claim 1 (Canceled).

2. (Currently Amended) A circular polarized wave reception antenna ~~as claimed in claim 1,~~ comprising:

a monopole antenna comprising a pole portion extending in an axial direction and a ground plate for grounding one terminal of said pole portion, said pole portion having a length of $\lambda/4$, where λ represents a resonance wavelength; and

a polarization converting arrangement, disposed around said monopole antenna, for converting a circular polarized wave into a linear polarized wave;

wherein said polarization converting means ~~comprising arrangement comprises~~ a plurality of helical leads ~~extending in a helical fashion which helically extend~~ along said pole portion ~~with apart and which are separated~~ from said pole portion by a predetermined distance, wherein each of said helical leads having includes an end which is grounded in said ground plate.

3. (Currently Amended) A circular polarized wave reception antenna as claimed in claim 2, wherein said plurality of helical leads are equal in number comprise two helical leads, and said two helical leads are disposed at around said pole portion with

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an angular ~~space~~ distance of 90 degrees ~~around said pole portion~~
therebetween.

4. (Currently Amended) A circular polarized wave reception antenna as claimed in claim 2, wherein said plurality of helical leads are equal in number comprise at least three or more helical leads, and said at least three or more helical leads are disposed at around said pole portion with equal angular spaces around said pole portion distances therebetween.

5. (Currently Amended) A circular polarized wave reception antenna as claimed in claim 2, wherein said resonance wavelength is ~~equal to~~ 128.3mm and said predetermined space is ~~equal to~~ 20mm.

6. (Currently Amended) A circular polarized wave reception antenna as claimed in claim 2, wherein each of said plurality of helical lead leads has a length of $\lambda/4$.

7. (Currently Amended) A circular polarized wave reception antenna as claimed in claim 2, wherein a pitch angle ~~included~~ between said ground plate and each of said plurality of helical lead leads is between 30 degrees and 50 degrees.

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8. (Currently Amended) A circular polarized wave reception antenna as claimed in claim 7, wherein said pitch angle is ~~equal~~ to 40 degrees.

9. (Currently Amended) A circular polarized wave reception antenna as claimed in claim 2, wherein said polarization converting ~~means~~ arrangement comprises a cylindrical body ~~formed by including~~ an antenna pattern film which is rolled into a
5 cylindrical shape,

wherein said antenna pattern film ~~comprising~~ comprises a flexible insulator film member having one surface on which said helical leads are formed, and

wherein said pole portion ~~being~~ is disposed in a ~~substantial~~
10 ~~center~~ substantially central portion of said cylindrical body.